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 Asp Ser Thr Phe Thr Ile Thr Val Asp Gln Lys Thr Phe His Phe Gln  
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 60 Thr Ile Leu Arg His Thr Leu Gln Leu Gln Gly Leu Asp Ser Gly Phe  
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Val Pro Ser Val Gln Asp Phe Asp Lys Lys Leu Thr Glu Ala Asp Ala  
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 5 Tyr Leu Gln Ile Leu Ile Glu Gln Leu Lys Leu Phe Asp Asp Lys Leu  
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 50 Ala Ser Val Leu Thr His Ser Ser Ser Gly Asn Ser Leu Lys Arg Pro  
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 55 Asp Thr Thr Glu Ser Leu Asn Ser Ser Leu Ser Asn Gly Thr Ser Asp  
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 60 Ala Asp Leu Phe Asp Ser His Asp Asp Arg Asp Asp Asp Ala Glu Ala  
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 Gly Ser Val Glu Glu His Lys Ser Val Ile Met His Leu Leu Ser Gln

355

360

365

5 Val Arg Leu Gly Met Asp Leu Thr Lys Val Val Leu Pro Thr Phe Ile  
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10 Leu Glu Arg Arg Ser Leu Leu Glu Met Tyr Ala Asp Phe Phe Ala His  
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15 Pro Asp Leu Phe Val Ser Ile Ser Asp Gln Lys Asp Pro Lys Asp Arg  
 405 410 415

20 Met Val Gln Val Val Lys Trp Tyr Leu Ser Ala Phe His Ala Gly Arg  
 420 425 430

25 Lys Gly Ser Val Ala Lys Lys Pro Tyr Asn Pro Ile Leu Gly Glu Ile  
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30 Phe Gln Cys His Trp Thr Leu Pro Asn Asp Thr Glu Glu Asn Thr Glu  
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35 Leu Val Ser Glu Gly Pro Val Pro Trp Val Ser Lys Asn Ser Val Thr  
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40 Phe Val Ala Glu Gln Val Ser His His Pro Pro Ile Ser Ala Phe Tyr  
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45 Ala Glu Cys Phe Asn Lys Lys Ile Gln Phe Asn Ala His Ile Trp Thr  
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50 Lys Ser Lys Phe Leu Gly Met Ser Ile Gly Val His Asn Ile Gly Gln  
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55 Gly Cys Val Ser Cys Leu Asp Tyr Asp Glu His Tyr Ile Leu Thr Phe  
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60 Pro Asn Gly Tyr Gly Arg Ser Ile Leu Thr Val Pro Trp Val Glu Leu  
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65 Gly Gly Glu Cys Asn Ile Asn Cys Ser Lys Thr Gly Tyr Ser Ala Asn  
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70 Ile Ile Phe His Thr Lys Pro Phe Tyr Gly Gly Lys Lys His Arg Ile  
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75 Thr Ala Glu Ile Phe Ser Pro Asn Asp Lys Lys Ser Phe Cys Ser Ile  
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Glu Gly Glu Trp Asn Gly Val Met Tyr Ala Lys Tyr Ala Thr Gly Glu  
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5

Asn Thr Val Phe Val Asp Thr Lys Lys Leu Pro Ile Ile Lys Lys Lys  
 625 630 635 640

10

Val Arg Lys Leu Glu Asp Gln Asn Glu Tyr Glu Ser Arg Ser Leu Trp  
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15

Lys Asp Val Thr Phe Asn Leu Lys Ile Arg Asp Ile Asp Ala Ala Thr  
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Glu Ala Lys His Arg Leu Glu Glu Arg Gln Arg Ala Glu Ala Arg Glu  
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25

Arg Lys Glu Lys Glu Ile Gln Trp Glu Thr Arg Leu Phe His Glu Asp  
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Gly Glu Cys Trp Val Tyr Asp Glu Pro Leu Leu Lys Arg Leu Gly Ala  
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Pro Val Ile Ser Thr Met Pro Ser Gln Thr Val Leu Pro Pro Glu Pro  
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Val Gln Leu Cys Lys Ser Glu Gln Arg Pro Ser Ser Leu Pro Val Gly  
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Pro Val Leu Ala Thr Leu Gly His His Gln Thr Pro Thr Pro Asn Ser  
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Thr Gly Ser Gly His Ser Pro Pro Ser Ser Ser Leu Thr Ser Pro Ser  
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His Val Asn Leu Ser Pro Asn Thr Val Pro Glu Phe Ser Tyr Ser Ser  
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Ser Glu Asp Glu Phe Tyr Asp Ala Asp Glu Phe His Gln Ser Gly Ser  
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Ser Pro Lys Arg Leu Ile Asp Ser Ser Gly Ser Ala Ser Val Leu Thr  
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His Ser Ser Ser Gly Asn Ser Leu Lys Arg Pro Asp Thr Thr Glu Ser  
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Leu Asn Ser Ser Leu Ser Asn Gly Thr Ser Asp Ala Asp Leu Phe Asp  
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Ser His Asp Asp Arg Asp Asp Asp Ala Glu Ala Gly Ser Val Glu Glu  
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His Lys Ser Val Ile Met His Leu Leu Ser Gln Val Arg Leu Gly Met  
 195 200 205

Asp Leu Thr Lys Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser  
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 5 Ser Ile Ser Asp Gln Lys Asp Pro Lys Asp Arg Met Val Gln Val Val  
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 60 Gly Val Met Tyr Ala Lys Tyr Ala Thr Gly Glu Asn Thr Val Phe Val  
 450 455 460  
 Asp Thr Lys Lys Leu Pro Ile Ile Lys Lys Lys Val Arg Lys Leu Glu



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5	Asp Gln Asn Glu Tyr Glu Ser Arg Ser Leu Trp Lys Asp Val Thr Phe	485	490		
10	Asn Leu Lys Ile Arg Asp Ile Asp Ala Ala Thr Glu Ala Lys His Arg	500	505	510	
15	Leu Glu Glu Arg Gln Arg Ala Glu Ala Arg Glu Arg Lys Glu Lys Glu	515	520	525	
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25	Tyr Asp Glu Pro Leu Leu Lys Arg Leu Gly Ala Ala Lys His	545	550	555	
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